IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

m/re application of

ULF P.F. LINDAHL et al

Serial No. 109,936

Filed: January 4, 1980

For: HEPARIN FRAGMENTS HAVING

SELECTIVE ANTICOAGULATION)
ACTIVITY

Art Unit: 125

Examiner: Brown

RECEIVED

WAR 16 1981

RESPONSE

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

In response to the Office Action dated December 8, 1980, please amend the above-identified application as follows:

1 Amended. Heparin fragments[, characterized by] having 14-18 sugar units, wherein the main component is the disaccharide unit L-iduronosyl-2-O-sulphate-N-sulpho-D-glucosamine-6-O-sulphate [being the main component], and where unsulphated L-iduronic acid is in a position situated 3-5 sugar units from the unreducing terminal and is followed by a unit selected from the group consisting of N-sulpho-D-glucosamine sulphate and N-acetyl-glucosamine in sulphated and unsulphated form.

Claim 2, line 1, delete ", characterized by" and substitute therefor -- having --.

Amended) Pharmaceutical compositions[, characterized in that they comprise] for preventative treatment or treatment of arterial thrombosis containing heparin fragments having selective anticoagulation activity and containing 14-18 sugar units, wherein the main component is the disaccharide unit L-iduronosy1-2-O-sulphate-N-sulpho-D-glucosamine-6-O-sulphate [being the main component], and where unsulphated L-iduronic acid is in a position situated 3/5 sugar units

a

claim

as